

MATERIAL: DUCTLE IRON GRADE 65-45-12 FULLY ANNEALED CONFORMING TO ASTM SPECIFICATIONS

AND SPECIFIED.

ALL CONCRETE SHALL BE CLASS "R".

THE PRECAST TOP SLAB SHALL BE REMOVED AND REPLACED AS REQUIRED.

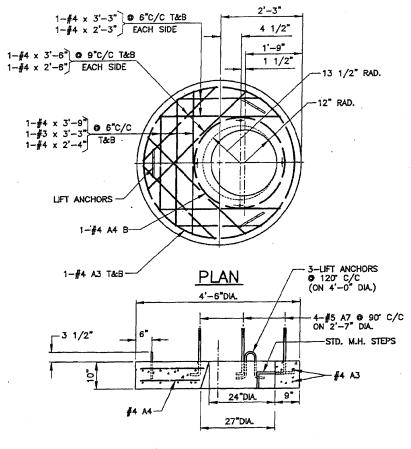
ALL ELEMENTS-OF THE MANHOLE-DISTURBED OR DAMAGED DURING ALTERATION SHALL BE CORRECTED OR REPLACED TO MEET THE STANDARD HEREIN SHOWN

ALL GROUT SHALL BE 1 PART CEMENT TO 3 PARTS SAND WITH MINIMUM WATER TO ACHIEVE A STIFF PLASTIC CONSISTANCY WITH ZERO SLUMP.

ALL WORKMANSHIP AND MATERIALS NOT SPECIFIED SHALL BE AS PER STANDARD PREPRINTED MWRDGC SPECIFICATIONS TITLED:

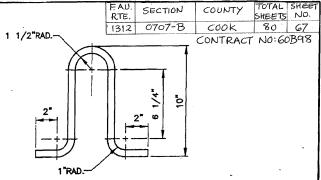
GENERAL SPECIFICATIONS — CONSTRUCTION CONTRACTS
GENERAL SPECIFICATIONS — SEWERS
GENERAL SPECIFICATIONS — CONCRETE

MANHOLE STEPS



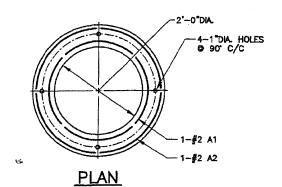
SECTION PRECAST TOP SLAB DETAIL NOT TO SCALE

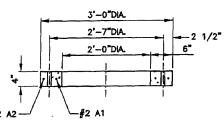
RE-BAR BENDING DETAILS										
MARK	SIZE	LENGTH	TYPE	A	В	R	т		/	
A1	#2	7'-6"	2	-	-	13 1/2"				
A2	#2	9'~6"	2	-	-	17"	7 [(K -)		
_ A3	#4	13'-6"	2			24"	A		121	
A4	#4	9'-3"	2	-		16 1/2"	 ``	2	\mathcal{A}	
A5	# 5	7'-10"	3	8'-9"	-	27 1/2"		-	•	
A7	# 5	2'-0"	①	6"	1'-6"					



LIFT ANCHOR DETAIL NOT TO SCALE

MATERIAL: 5/8" DIA. x 2'-3"A-36 STEEL ROD GALVANIZED AFTER FABRICATION





SECTION PRECAST ADJUSTMENT RING DETAIL NOT TO SCALE

PROCEDURE:

- A) TO RAISE ELEVATION 0" TO 8" MAX., ADD 4" THICK ADJUSTMENT RINGS AS DETAILED. INCREMENTS OF LESS THAN 4" SHALL BE OBTAINED BY HAND PACKING A DRY CEMENT GROUT OVER 100% OF THE BEARING AREA.
- C) TO RAISE ELEVATION 12" AND ABOVE, ADD TO 9" THICK MANHOLE BARREL ONLY IN INCREMENTS OF 12" WITH RUNGS AT 12" O.C. AS DESCRIBED IN (B). FOR INCREMENTS BETWEEN 12" ADD OR REMOVE 4" ADJUSTMENT RINGS AND GROUT FILLER AS DESCRIBED IN (A) 4 APR (D). IN (A) AND (B).

REVISIONS			METROPOLITAN WATER RECLAMATION	
NO	DATE	BY	DISTRICT OF GREATER CHICAGO	Correct
			,	Engr. of Sewer Design
			PROCEDURE FOR ADJUSTING ELEVATION OF EXISTING	Approved Assistant Chief Engineer
			36" DIA. STANDARD MANHOLES	Approved Chief Engineer
	1		DESIGNED VY DRAWN VY CHECKED XX REVIEWED XX DATE: X-X	<u> </u>

- B) TO RAISE ELEVATION OVER 8" AND LESS THAN 12", REMOVE THE
 4" ADJUSTMENT RING AND EXTEND THE 9" THICK MANHOLE BARREL
 12" WITH CAST IN PLACE CONCRETE REINFORCED AS DETAILED
 AND WITH LADDER RUNG AS DETAILED. TOP OF EXISTING CONCRETE TO BE CLEANED AND ROUGHENED AND NEW CONCRETE PLACED IN A MANNER TO INSURE BONDING AND NO LEAKAGE. FOR INCREMENTS BETWEEN 8" AND 12" PLACE GROUT FILLER AS IN (A) ABOVE.

SECTION "A-A" STANDARD MANHOLE BARREL

NOT TO SCALE

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